

Vessel	Nationality	Date	Position of Ship		Time GMT	Dr. deg.	Wind	Speed	Visibility	Present Weather	Pressure	Temperature		Sea	Wind	Dr. deg.	Wind	Dr. deg.	Wind
			Lat.	Long.								Air	Sea						
PACIFIC																			
PHILADELPHIA	WJGO	27	57.7 N	143.5 W	00	32	M 43	5 NM	00	1000.5	17.8	13.9	4	19.5	29	10	32.5		
NEWARK	WJGO	27	57.6 N	147.3 W	00	29	M 37	10 NM	00	1029.5	10.0	11.7	5	14.5					
ORIENTAL EXECUTIVE	OSAN	27	42.0 N	150.6 E	12	13	M 35	5 NM	58	1007.5	19.0	19.0							
MOBIL HERIDIAN	KSPY	27	53.1 N	134.7 W	12	29	M 43	2 NM	25	1006.0	13.3	13.9	4	8	29	12	18		
EVER LINKING	SEJ2	27	36.6 N	149.4 E	18	25	M 35	5 NM	18	0999.0	25.0								
PACIFIC																			
SONIO INTREPID	DZSO	27	40.4 N	151.4 E	18	10	M 37	2 NM	81	0999.0	18.0								
KACK	KACK	27	51.1 N	133.6 W	18	30	M 35			1012.2	15.0	16.1	3	10	30	6	21		
MOBIL ARCTIC	KSPY	27	46.9 N	131.6 W	18	34	M 37	10 NM	00	1028.8	17.2	15.6	8	19.5	30	10	10		
OVERSEAS JUNEAU	WJGO	27	50.1 N	132.8 W	18	29	M 37	10 NM	16	1012.9	17.2	14.4	5	10	31	7	19.5		
DTYL	DTYL	28	12.0 N	127.7 E	00	20	M 46	5 NM	03	1003.5	31.0			8	16.5	20	6	10	
PACIFIC																			
SONIO INTREPID	KACK	28	51.7 N	134.1 W	00	31	M 35	5 NM	01	1015.4	15.0	15.6	4	10	31	8	13		
GOLDEN DAISY	6250	28	41.8 N	155.4 E	00	04	M 35	5 NM	01	1005.0	19.0	17.0	7	14.5	04	9	14.5		
ORIENTAL EXECUTIVE	OSAN	28	38.5 N	145.1 E	06	33	M 25	5 NM	01	1006.5	23.0	24.0	6	4.5	33	10	19.5		
MOBIL ARCTIC	KSPY	28	48.4 N	130.0 W	06	31	M 30	5 NM	00	1031.0	13.9	13.9	12	23	31	8	13		
OVERSEAS JUNEAU	WJGO	28	52.9 N	135.4 W	12	27	M 18	10 NM	02	1013.0	13.3	11.1	5	6.5	30	10	21		
PACIFIC																			
AMERICAN AQUARIUS	WYRI	28	12.1 N	140.9 E	21	22	M 38	200 YD	81	0999.0	25.0	28.9	6	10	21	6	11.5		
MELBOURNE HIGHWAY	SEJW2	28	42.7 N	151.5 E	23	07	M 36	.5 NM	45	1003.0	16.0	14.0	9	8	11	10			
DTYL	DTYL	29	13.8 N	131.9 E	00	21	M 21			1007.0	31.0	32.0	5	16.9	21	10	19.5		
AMERICAN AQUARIUS	WYRI	29	12.1 N	139.8 E	00	35	M 35	200 YD	81	1003.0	25.0	28.9	4	8	27	6	10		
BARBARA FOSS	WYRI#78	29	56.9 N	135.9 W	12	15	M 38			1013.2	12.5		3	5	21	7	6.5		
SEA ASTRA	HPDO	29	34.2 N	158.7 W	18	07	M 25	10 NM	01	1020.0	23.0	25.0	4	21	07	6	21		
PACIFIC																			
WORLD PROBITY	DSAL	30	46.4 N	152.3 E	00	07	M 25	.5 NM	40	1017.0	14.0	8.0	6	13	07	10	21		
GREEN WOOD	3FHB2	30	40.6 N	148.9 E	12	02	M 32			1006.0	18.0	19.0	9	16.5	02	12	19.5		
GREEN WOOD	WYRI	31	41.9 N	151.4 E	00	02	M 30			1006.5	18.0	21.5	9	16.5	02	12	19.5		
EVER TRUST	BKHO	31	33.0 N	154.9 E	06	32	M 27			0999.0	27.0	24.0	5	19.5	06	7	1.5		
CHEVRON COLORADO	KLMZ	31	56.9 N	145.7 W	06	32	M 36	2 NM	63	1005.8	10.6		3	5	36	6	6.5		
PACIFIC																			
SAMUEL S	SLW#	5	42.2 N	175.1 E	00	25	M 28	2 NM	80	1010.0	18.0	18.0	5	13	27	9	28		
SAMUEL S	SLW#	6	42.2 N	170.4 E	00	29	M 32	2 NM	96	1006.0	16.0	17.0	5	11.5	28	16	26		
PRESIDENT JEFFERSON	WJGO	9	24.7 N	161.5 E	18	27	M 50	5 NM	50	1009.0	14.0	15.3	9	6.5	27	8	10		
MOBIL ARCTIC	KSPY	9	24.7 N	117.5 W	00	27	M 45	1 NM	61	1007.8	23.9	22.2	10	29.5					
SEALAND FREEDOM	WJGO	12	50.2 N	164.0 E	06	23	M 22	200 YD	50	1000.0	12.0	11.0	5	8	21	6	24.5		
PACIFIC																			
HANJIN INCHON	3EUD	13	50.3 N	149.1 W	00	09	M 37	.5 NM	62	0993.5	12.5	12.0	10	21	10	12	24.5		
OVERSEAS JUNEAU	WYRI	14	77.2 N	141.5 W	06	11	M 50			1001.6	11.7	11.7	6	13	13	10	26		
6205	WJGO	16	48.9 N	175.1 W	18	30	M 10	5 NM	02	1020.0	10.0	10.0	2	1.5	03	30	32.5		
NEW INDEPENDENCE	SMOS	19	46.5 N	175.2 W	18	04	M 50			1010.0	11.0	12.0	9	19.5	06	12	19.5		
NEW INDEPENDENCE	SMOS	20	46.4 N	174.5 W	00	03	M 50	200 YD	81	0995.0	11.0	12.0	10	19.5	04	8	19.5		
PACIFIC																			
WEZA	WJGO	20	13.1 N	124.8 E	18	04	M 10	10 NM	01	1004.5	26.7	27.2	2	3	03	10	34.5		
OKT2	WJGO	21	41.2 N	155.8 E	06	02	M 53	5 NM	05	0998.0	18.8	18.0	8	16.5					
WJGU	WJGU	27	10.2 N	17.0 W	12	25	M 15	10 NM	03	1009.9	25.6	25.0	8	5	24	9	39		
PHILADELPHIA	WJGO	22	53.8 N	135.6 W	18	04	M 09	10 NM	00	1023.5	16.1	13.9	9	6.5	29	10	24.5		
VAN CONSUMER	ABTE	23	47.1 N	173.4 E	00	28	M 52	5 NM	03	0994.5	9.0	11.0	10	16.5	28	13	21		
PACIFIC																			
ORIENTAL SOVEREIGN	ABUH	23	48.1 N	174.3 W	18	24	M 52	7 NM	50	1010.0	10.0	10.0							
WJGU	WJGU	26	13.2 N	132.6 W	18	11	M 66	25 NM	01	1004.0	33.0	27.0							
WJGU	WJGU	30	46.8 N	142.2 W	00	18	M 30	10 NM	01	0996.0	12.2	11.1	5	13	11	9	26		
WJGU	WJGU	30	46.3 N	173.5 E	00	31	M 26	10 NM	02	1023.0	19.0	18.0	5	8	30	7	31		
CHARLOTTE LYKES	WJGU	30	46.3 N	173.5 E	00	31	M 26	10 NM	02	1023.0	19.0	18.0	5	8	30	7	31		
PRESIDENT JEFFERSON	WJGU	30	46.3 N	173.5 E	00	31	M 26	10 NM	02	1023.0	19.0	18.0	5	8	30	7	31		

+ Direction for sea waves same as wind direction
 X Direction or period of waves indeterminate
 N Measured wind

NOTE: The observations are selected from those with winds ≥ 40 km or waves ≥ 20 ft from April through September and 45 km or 30 ft October through March.

ABRIDGED INDEX TO VOLUME 28

ARTICLES	No.	Page
Satellite Indicators of Rapid Cyclogenesis	1	6
Warm Core Cyclones in the Mediterranean	2	10
North Atlantic Tropical Cyclones, 1983	2	67
Eastern North Pacific Tropical Cyclones, 1983	2	79
Central North Pacific Tropical Cyclones, 1983	2	81
El Niño - Southern Oscillation Episode of 1982-83	2	140
Comparisons Between Ship and Buoy Climatologies	3	137
Great Lakes Navigation Season, 1983	3	181
Western North Pacific Typhoons, 1983	4	207
North Indian Ocean Tropical Cyclones, 1983	4	219
Ice Jam Halts Lakers	4	221
MARINE OBSERVATIONS PROGRAM		
Jacksonville, FL Port Meteorological Officer	1	15
Extreme Storm Wave Casualty	1	15
Mariner Schools	1	15
Observers Handbook NWSN No. 1	1	15
PMO Conference April 17-19	2	85
Hurricane Season Cuing	2	85
SPREP or STORM Reports	2	85
What One Observation Can Do	2	85
Reading the Barometer	2	85
Coordination with the Radio Officer	2	85
Radio Weather Reports (72-1A) and Observations	2	86
Dear Captain Letter	2	86
Coastal Weather Reports	2	86
Metereports	2	87
Alaska VOS	2	87
Marine Upper Air Soundings, ASAP	2	87
Marine Weather Bonus Books	2	88
Importance of Tropical Cyclone Weather Reports	2	88
U.S. Voluntary Observing Ships (VOS)	3	148
Voluntary Observing Ship Statistics	3	149
Ship's Weather Observation, NOAA Form 72-1A	3	150
New True Wind Plotting Board and Calculator	3	151
Alaska and Hawaii PMO's	3	151
Cooperative Ship Program Certificate	3	151
Ports-Port Objectives for Real Time Service	3	152
Ports Work Shop Calendar	3	152
New Port Meteorological Officers	4	224
50,000 Ship Visit	4	224
Sea and Small Photos	4	225
Ship Routing and the National Weather Service	4	225
Complicity is a Killer	4	225
Coastal Observations	4	225
Observations Count	4	226
Nighttime Observation	4	227
Hurricane Forecasts	4	227
Icing	4	227

THE EDITOR'S DESK	No.	Page
SOLAR, Chapter III	1	18
1984 International Ice Patrol	1	18
IRAS Discovers Giant Dust Shell Around the Star Betelgeuse	1	19
Retirements	1	20
NASA Begins Study of Troposphere's Chemistry	1	21
Long-Term Weather Effect Seen from Mexico Volcano	1	21
"Hurricanes" in Arctic to be Studied from Mexico Volcano	1	21
Facsimile Test (cont.)	1	21
Letters to the Editor -- Williams	1	22
The Year of the Ocean	2	89
Hurricane-like Storms Pose Threat in Arctic	2	90
St. Lawrence Seaway 25th Anniversary	2	90
Studies Focus on Ocean Role in Climate, Acid Rain, CO ₂	2	91
Coast Guard to Activate Vessel Traffic Service in New York	2	91
1983-84 Winter Sixth Coldest since 1931	2	91
Hurricane Flooding Models Completed for Four Atlantic/Gulf Coast Sites	2	92
WARAD Buys U.S. Passenger/Cargo Vessel for Conversion to Training Ship	2	92
NOAA Developing Process to Forecast Ship Icing	2	92
Coastal - Marine Automated Network (C-MAN update)	2	93
1984 Tropical Cyclone Names	2	93
Highway, Transport Fatalities Down	3	158
Marine Facsimile Schedule	3	158
Weather Map Display, PRESIDENT WASHINGTON	3	158
Peggy Olson Receives Award	3	158
International Search and Rescue Program	3	159
Great Lakes Ice Atlas Published by NOAA	3	159
Magnitude and Importance of Great Lakes Ice Staggering	3	159
Letters to the Editor-Weather Reports to IBM-29	3	161
Letters to the Editor-Strong Winds in Cook Strait	3	161
Hurricane Josephine Studies	4	229
Scientists to Study Gulf as Source of Acid Rain	4	229
Early Hugs of the Great Lakes	4	230
Buoys to be Deployed in Hurricane Path	4	230
JUSTINE FOSS Receives Award	4	231
Letter to the Editor RIVER EMLEY and Tropical Storm June	4	231
TIPS TO THE RADIO OFFICER		
New Coast Guard Radio Service for Mariners	1	18
Closing CW at NAVCONSTA MEA	1	18
Facsimile Test	1	18
Coast Guard Communications Problems	2	89
Ten Character Group Weather Messages	2	89
Heavy Weather Facsimile Schedule	2	89
Corrections to Worldwide Marine Weather Broadcasts (January 1984 Edition)	3	162
Transmitting Weather Observations	3	166
New IBEROARCTIC Areas	3	167
Corrections to WORLDWIDE MARINE WEATHER BROADCASTS (January 1984 Edition)	4	228
Facsimile Schedule, IWC	4	229